#4

Docket No.: PC-0044 CIP

DECLARATION AND POWER OF ATTORNEY FOR UNITED STATES PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name, and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if more than one name is listed below) of the subject matter which is claimed and for which a United States patent is sought on the invention entitled

HUMAN GPCR PROTEINS

the specification of which:

/__/ is attached hereto.

/ X /__/ was filed on June 28, 2001 as application Serial No. 09/895,686, and if this box contains an X /___/, was amended on _____.

/___/ was filed as Patent Cooperation Treaty international application No. _____ on _____,2001, if this box contains an X /_/, was amended on under Patent Cooperation Treaty Article 19 on _____ 2001, and if this box contains an X /_/, was amended on _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge my duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim the benefit under Title 35, United States Code, §119 or §365(a)-(b) of any foreign application(s) for patent or inventor's certificate indicated below and of any Patent Cooperation Treaty international applications(s) designating at least one country other than the United States indicated below and have also identified below any foreign application(s) for patent or inventor's certificate and Patent Cooperation Treaty international application(s) designating at least one country other than the United States for the same subject matter and having a filing date before that of the application for said subject matter the priority of which is claimed:

Country	Number	Filing Date	Priority Claimed
_____	_____	_____	/_/ Yes /_/ No
_____	_____	_____	/_/ Yes /_/ No

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

Application Serial No.	Filed	Status (Pending, Abandoned, Patented)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in said prior application(s) in the manner required by the first paragraph of Title 35, United States Code §112, I acknowledge my duty to disclose material information as defined in Title 37 Code of Federal Regulations, §1.56(a) which occurred between the filing date(s) of the prior application(s) and the national or Patent Cooperation Treaty international filing date of this application:

Application Serial No.	Filed	Status (Pending, Abandoned, Patented)
09/156,513	Sept. 17, 1998	Pending

I hereby appoint the following:

Lucy J. Billings	Reg. No. 36,749
Michael C. Cerrone	Reg. No. 39,132
Diana Hamlet-Cox	Reg. No. 33,302
Richard C. Ekstrom	Reg. No. 37,027
Barrie D. Greene	Reg. No. 46,740
Lynn E. Murry	Reg. No. 42,918
Shirley A. Recipon	Reg. No. 47,016
Susan K. Sather	Reg. No. 44,316
Michelle M. Stempien	Reg. No. 41,327
David G. Streeter	Reg. No. 43,168

respectively and individually, as my patent attorneys and/or agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. Please address all communications to:

LEGAL DEPARTMENT
INCYTE GENOMICS, INC.
3160 PORTER DRIVE, PALO ALTO, CA 94304

TEL: 650-855-0555 FAX: 650-849-8886 or 650-845-4166

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Sole Inventor or First Joint Inventor:	**Full name:**	**OLGA BANDMAN**
	Signature:	Olga Bandman
	Date:	26 September , 2001
	Citizenship	**United States of America**
	Residence:	**Mountain View, California**
	P.O. Address:	**366 Anna Avenue Mountain View, California 94043**
Second Joint Inventor:	**Full name:**	**PREETI G. LAL**
	Signature:	
	Date:	**, 2001**
	Citizenship	**India**
	Residence:	**Santa Clara, California**
	P.O. Address:	**P.O. Box 5142 Santa Clara, California 95056**

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TEL: 650-855-0555 FAX: 650-849-8886 or 650-845-4166

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Sole Inventor or First Joint Inventor:	**Full name:**	**OLGA BANDMAN**
	Signature:	
	Date:	**, 2001**
	Citizenship	**United States of America**
	Residence:	**Mountain View, California**
	P.O. Address:	**366 Anna Avenue Mountain View, California 94043**

Second Joint Inventor:	**Full name:**	**PREETI G. LAL**
	Signature:	Preeti Lal
	Date:	September 28 **, 2001**
	Citizenship	**India**
	Residence:	**Santa Clara, California**
	P.O. Address:	**P.O. Box 5142 Santa Clara, California 95056**

Third Joint Inventor:	**Full name:**	**Y. TOM TANG**
	Signature:	
	Date:	**Sept. 28 , 2001**
	Citizenship	**United States of America**
	Residence:	**San Jose, California**
	P.O. Address:	**4230 Ranwick Court San Jose, California 95118**

Fourth Joint Inventor:	**Full name:**	**MARIAH R. BAUGHN**
	Signature:	
	Date:	**, 2001**
	Citizenship	**United States of America**
	Residence:	**San Leandro, California**
	P.O. Address:	**14244 Santiago Road San Leandro, California 94577**

Third Joint Inventor:	**Full name:**	**Y. TOM TANG**
	Signature:	
	Date:	**, 2001**
	Citizenship	**United States of America**
	Residence:	**San Jose, California**
	P.O. Address:	**4230 Ranwick Court San Jose, California 95118**

Fourth Joint Inventor:	**Full name:**	**MARIAH R. BAUGHN**
	Signature:	Mariah R. Baughn
	Date:	September 27 **, 2001**
	Citizenship	**United States of America**
	Residence:	**San Leandro, California**
	P.O. Address:	**14244 Santiago Road San Leandro, California 94577**

Table 1

SEQ ID NO:	Amino Acid Residues	Potential Phosphorylation Sites	Potential Glycosylation Sites	Signature Sequences	Identification	Analytical Methods
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2	353	S158 T255 S86 T120 S151 S243 S246 T251 T317 S325	N13 N16 N23 N58 N84	I42-V66, P78-M99, W109-I149, V159-L180, T209-L232, V254-T278, Y293-R319	Somatostatin-like GPCR	BLAST, BLOCKS, HMM, MOTIFS, PFAM, PRINTS, PROFILESCAN
3	333	T60 T218 S89 S172 T224	N8 N110 N300	Y44-L74, P62-H83, F109-R131, N143-L164, A231-G255, K278-P304	Rhodopsin-like GPCR	BLAST, BLOCKS, HMM, MOTIFS, PFAM, PRINTS
4	396	S36 S187 T251 S27 T323 S389	N7	I46-P70, Y79-I100, L117-F157, R166-S187, S219-F242, L265-L289, S302-K328	Rhodopsin-like GPCR	BLAST, BLOCKS, HMM, MOTIFS, PFAM, PRINTS, PROFILESCAN
5	403	S360 S368 S47 T318 S337 S5 T33 S123 T398	N30 N352	I57-L78, G94-E117, C122-V151, L162-L181, M198-F220, G233-L255	Metabotropic glutamate GPCR	BLOCKS, HMM, MOTIFS, PRINTS
6	807	T129 S155 S172 S201 S322 S347 S409 S662 S787 S794 S117 T166 T271 T402 T583 T587 T618 S771	N88 N110 N127 N281 N392 N424 N443 N505 N647 N785 N798	N425-T452, I475-W499, A549-L572, F636-N647, Q677-G696, H709-W730	Secretin-like GPCR	BLAST, BLOCKS, HMM, MOTIFS, PRINTS

<110> Bandman, Olga
Lal, Preeti
Tang, Y. Tom
Baughn, Mariah R.

<120> HUMAN GPCR PROTEINS

<130> PC-0044 CIP

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Val Phe Phe Leu Leu Gly Thr Leu Gly Leu Phe Cys Leu Val Phe
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Ala Cys Val Val Lys Pro Asp Phe Ser Thr Cys Ala Ser Arg Arg
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140 145 150
Pro Arg Gly Trp Val Ile Phe Thr Val Ala Leu Leu Leu Thr Leu
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cctggcagga ggctggggtt ggctcctcga ctccacaaac actgaggagt gggtggggac 240
acccatgaca cccacccaaa cactggcaga gagggaggcc cttccacatc tggggcacat 300
gttgctgggc ctgccagggg gaggaggagc ctggagagtc ccttgcccgg ggccaggtcc 360
tcagggccct ccccaaatcc gaccgcctct cctcgccacc gctgactcag tcccacacgt 420
aggggtttct aaagacctga gagttcttgc cgtctttcgg cggtgtggcg cctggtggct 480
ctgggccgag tacatgtctt cagcccgcag gtcgag 516

<210> 15
<211> 268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1962119T6

<400> 15
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ccagagaaac ataggcgctg cccagccacc accccgagaa cactatttgg ctggagtgtg 120
accgccgagg tgatcctggc aggaggctgg ggttggctcc tcgactccac aaacactgag 180
gagtgggtgg ggacacccat gacacccacc caaacactgg cagagaggga ggcccttcca 240
catctggggc acatgttgct gggcctgc 268

<210> 16
<211> 246
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2059242R6

<400> 16
cagtgtttgg gtgggtgtca tgggtgtccc cacccactcc tcagtgtttg tggagtcgag 60
gagccaaccc cagcctcctg ccaggatcac ctcggcggtc acactccagc caaatagtgt 120
tctcggggtg gtggctgggc agcgcctatg tttctctgga gattcctgca acctcaagag 180

acttcccagg cgctcaggcc tggatcttgc tcctctgtga ggaacaaggg tgcctaataa 240
atacat 246

<210> 17
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SATA01180F1

<220>
<221> unsure
<222> 50, 52, 56, 66, 233, 272, 296
<223> a, t, c, g, or other

<400> 17
gactctagag gatccccctt caccacacag gcaaacacga ggcagaagan gnccanggtc 60
cccagnaaga agaatacctg ggtccccagc aggctccgtt tcttggtgtc ctgcacaaag 120
gggaggctgg ccaccaggat gatggtgagc acaaacgtgg tgacaatgcc cgccccagcc 180
acggcctcca ggacgatgcc ccacgcccca gagcggtcac acaggttgta gtncaggggg 240
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<210> 18
<211> 467
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SARB01556F1

<220>
<221> unsure
<222> 41, 51, 88-89, 105, 127-128, 173, 176, 200-201, 208, 217-218, 221, 223,
229-230, 235-236, 239, 251, 260, 270, 274, 277, 280, 295, 307-308, 313-314,
325, 339, 359, 362-363, 368, 376, 380, 382, 391, 405-406, 409, 414-416,
435-436, 441, 448-449, 455, 457, 459
<223> a, t, c, g, or other

<400> 18
cctgcaggtc gactctagag gataggcctc acgtctttgc nctcaacttc ntggcccgga 60
agaaccacgg gccccggggc tgggtgannt tcactgtggc tctgntgctg accctggtag 120
aggtcannat caatacagag tggctgatca tcaccctggt tcggggcagt ggnganggcg 180
gccctcaggg caacagcagn ncaggctngg ccgtggnntc ncnctgtgnn atcgnnaanc 240
atggatttgt natagcactn atctcacgtn atgntgntgn tgctgggtgc cttcntgggg 300
gcctggnnca gcnnctgtgt tggcngctaa agccctggng taagaatggg gtctttgtng 360
tnntcaanaa aaccanctcn gntgccatat nggtagtgag aaacnncang tatnnntaca 420
ggcaacaagc acccnnaaca ntttccannc tgggnangna cccaaag 467

<210> 19
<211> 631
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SARA01967F1

<220>
<221> unsure
<222> 229, 240, 341, 411, 445, 465-466, 469, 477, 491-492, 499-500, 505, 510,
517-518, 522, 524-525, 539-540, 545, 547-548, 551, 563-564, 567, 570, 572-573,
578-579, 585, 592, 605, 607, 627-628
<223> a, t, c, g, or other

<400> 19
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ggacttggtc acctgggaga cctcggggat gacgtagaag aggacgaagg cccaggcatt 180
ggcggcgagg gcgatggcca gcgtggggtc atcccaggtg ggactgttnt gctgcttgtn 240
gccgtaagta tacatgacga tccacaccac ccatatggca acggaggtgg ctgtggtgag 300
gagcacaaag accccatgct tacgccagcg cttgtagcgg ncacacaggg cgggccaggc 360
ccccaggaag gcacccagca gcagcagcat gacgtagatg agtgccaatg ncaaagtcca 420
tgttggcgat ggcacaaggg gggganggcca agggccccag ggggnnacng aggcttngaa 480
atttggtaaa nncaaggtnn aaaancaagn tttcccnngg gngnnaaaaa ttttttaann 540
cccgncnnca naaatttccc canncangan annttt anng atccngggaa ancccataaa 600
aaaantntta aaaacccctt ggggggnncc c 631

<210> 20
<211> 223
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1459432H1

<400> 20
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ccagcaccta catcctgacc gccatggcca ttgaccgcta cctggccact gtccacccca 120
tctcttccac gaagttccgg aagccctctg tggccaccct ggtgatctgc ctcctgtggg 180
ccctctcctt catcagcatc acccctgtgt ggctgtatgc cag 223

<210> 21
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1459432R1

<400> 21
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gatgccaaca caccgggcac tagaatgacc cctgcacatg cagaacacac ggacactcaa 120
gctggattag tgactgagca aatgtgcccc gtggagagaa tgtcaccaga gctgcaaaag 180
ccccccgacc ccagctttta ttagttttaa gacccccaac cacacccacc ccaggtctcc 240
ttgttttcag taagcagacc tcctagcaaa ctgggctttt actcctgtgg gctcagtgcc 300
acatcccctc aaataaacat gcatcctcta gagcaaaagg gaaattgaca ggatgctgga 360
acgccgagag atgggatgct ttatttttca ttatccacca gcttgggaga aaggccacct 420
tccatcgcac cagtgagagg cgggaaagag cgatcgggcc ctttcccgtc tctca 475

<210> 22
<211> 336
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1459432X12

<400> 22
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ccccgataac ctcacttcgg caggatcacc tcctcgcacg gggagcatct cctacatcga 120
catcatcatg ccttcggtgt tcggcaccat ctgcctcctg ggcatcatcg ggaactccac 180
ggtcatcttc gcggtcgtga agaagtccaa gctgcactgg tgcaacaacg tccccgacat 240
cttcatcatc aacctctcgg tagtagatct cctctttctc ctgggcatgc ccttcgtgat 300
ccacaagctc atgggcaatg gggtgtggca ctttgg 336

<210> 23
<211> 478

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3001554F6

<400> 23
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ccaaccacac ccaccccagg tctccttgtt ttcagtaagc agacctccta gcaaactggg 120
cttttactcc tgtgggctca gtgccacatc ccctcaaata aacatgcatc ctctagagca 180
aaagggagat tgacaggatg ctggaacgcc gagagatggg atgctttatt tttcattatc 240
caccagcttg ggagaaaggc caccttccat cgcaccagtg agaggcggga aagagcgatc 300
gggccctttc ccgtctctca ggccttgtgc aacatggccc tggctgctca ctccagccct 360
gcctgacttt aaacaaaccc agtcagtacc cttccacctc ttgccttggg aagaagacat 420
ttgagagctc acagatatag tgcaaccggt tatccaaacc aacatgttct cttgctca 478

<210> 24
<211> 279
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SAAC00257R1

<220>
<221> unsure
<222> 14
<223> a, t, c, g, or other

<400> 24
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agaaagagga gatctactac cgagaggttg atgatgaaga tgtcggggac gttgttgcac 120
cagtgcagct tggacttctt cacgaccgcg aagatgaccg tggagttccc gatgatgccc 180
aggaggcaga tggtgccgaa caccgaaggc atgatgatgt tgatgtagga gatgctcccc 240
gtgcgaggag gtgatcctgc cgaagtgagg ttatcgggg 279

<210> 25
<211> 519
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SAAB00250R1

<400> 25
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ccagcaccta catcctgacc gccatggcca ttgaccgcta cctggccact gtccacccca 120
tctcttccac gaagttccgg aagccctctg tggccaccct ggtgatctgc ctcctgtggg 180
ccctctcctt catcagcatc acccctgtgt ggctgtatgc cagactcatc cccttcccag 240
gaggtgcagt gggctgcggc atacgcctgc ccaacccaga cactgacctc tactggttca 300
ccctgtacca gtttttcctg gcctttgccc tgcctttagt ggtcatcaca gccgcatacg 360
tgaggatcct gcagcgcatg acgtcctcag tggcccccgc ctcccagcgc agcatccggc 420
tgcggacaaa gagggtgacc cgcacagcca tcgccatctg tctggtcttc tttgtgtgct 480
gggcacccta ctatgtgcta cagctgaccc agttgtcca 519

<210> 26
<211> 535
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SAAB00523R1

<220>
<221> unsure
<222> 113, 130-132, 134, 482, 530
<223> a, t, c, g, or other

<400> 26
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ctgctcactc cagccctgcc tgactttaaa caaacccagt cagtaccctt ccncctcttg 120
ccttgggaan nngncatttg agagctcaca gatatagtgc aaccggttat ccaaaccaac 180
atgttctctt gctcagcttc tgttctatcc aaaggtctca tcctgctccc ccaaggggat 240
ttctgatatc tgaaaacccc aaacctgact ccaggcctcc ccagcaacgt gtgagcccca 300
tggaatgtat ttatttcatt gcaacaaccc ctcacaaccc ggccttcctg catttcccga 360
gcggtcttgg gtttttctca gcatctctcc cggtggcgtg ttgtggtgcc ctgacttgga 420
ggtgtgcagg gtggcagggg aagtatcagg tgccttgctt tctggcctct ctcgtcagcc 480
gnctgagcgt tgctgacagc gcgagtgccc ctgggtgcag gcttaacgan agctg 535

<210> 27
<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2214673H1

<400> 27
cctcaccaga gctctggtgg ccacctctgt cccgccatgc tgctcaccga cagtggccag 60
ggcccacagc accaagaggc ttgggccaca aagtaaaggg tcgcggacct cgccggccgc 120
catgtggagc tgcagctggt tcaacggcac agggctggtg gaggagctgc ctgcctgcca 180
ggacctgcag ctggggctgt cactgttgtc gctgctgggc ctggtggtgg gcgtgccagt 240
gggcctgtgc tacaa 255

<210> 28
<211> 363
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3073644H1

<400> 28
cagcaagctc caacggctga tgaaaaagct gccctgcggg ggccggcact gctccccgga 60
ccacatgggg gtgcagcagg tgctggcgta ggcggcccag ccctcctggg gagacgtgac 120
tctggtggac gcagagcact tagttaccct ggacgctccc cacatccttc cagaaggaga 180
cgagctgctg gaagacaagc aggaggggtg tttttcttga agtttccttt ttcccacaaa 240
tgccactctt gggccaaggc tgtggtcccc gtggctggca tctggcttga gtctccccga 300
ggcctgtgcg tctcccaaac acgcagctca aggtccacat ccgcaaaagc ctcctcgcct 360
tca 363

<210> 29
<211> 281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3573501F6

<220>
<221> unsure
<222> 11, 29, 50, 72, 77, 93, 125-126, 131, 139, 144, 156, 176, 184, 214, 216, 246, 250, 252
<223> a, t, c, g, or other

<400> 29

cgcacagctg ngcaggtcct caccagagnt ctggtggcca cctctgtccn ggcatgctgc 60
tcaccgacag tngccanggc ccacagcacc aanaggcttg ggccacaaag taaagggtcg 120
cggannctcg ncggccgcna tgtngagctg cagctngttc aacggcacag ggctgntgga 180
gganctgcct gcctgccagg acctgcagtg gggntntcac tgttgtcgct gctgggcctg 240
gtggtnggcn tnccagtggg cctgtgctac aacgccctgc t 281

<210> 30
<211> 238
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4618526H1

<400> 30
gcagggagga cacgcccctg gaccgggaca cgggccggct ggagccctcg gcacacaggc 60
tgctggtggc caccgtgtgc acgcagtttg ggctctggac gccacactat ctgatcctgc 120
tggggcacac ggccatcatc tcgcgaggga agcccgtgga cgcacactac ctggggctac 180
tgcactttgt gaaggatttc tccaaactcc tggccttctc cagcagcttt gtgacacc 238

<210> 31
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4857037H1

<400> 31
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gaaccagagc ttccccagca agctccaacg gctgatgaaa aagctgccct gcggggaccg 120
gcactgctcc ccggaccaca tgggggtgca gcaggtgctg gcgtaggcgg cccagccctc 180
ctggggagac gtgactctgg tggacgcaga gcacttagtt accctggacg ctccccacat 240
ccttccagaa ggagacgag 259

<210> 32
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5025086H1

<400> 32
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ccatgtgtcc acccgcgcgc tagagtgcgc caagatgcag aacgcagaag ctgccgacgc 120
cacgctggtg ttcatcggct acgtggtgcc agcactggcc accctctacg cgctggtgct 180
actctcccgc gtccgcaggg aggacacgcc cctggaccgg gacacgggcc ggctggagcc 240
ctcggcacac aggctgctgg tggccaccgt gtgca 275

<210> 33
<211> 563
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1482004T1

<220>
<221> unsure
<222> 3, 97, 99
<223> a, t, c, g, or other

<400> 33
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tcatactgaa aaaaacctca gctgatgtta tctgtgngng ctggggaggg tgtcagggac 120
atttggtggc tgaggagagc gcgtcactgc tattgaatag ctccatttaa caccagccat 180
gtctccgcgt ctcaggcact tctgtgaaat gttctcagaa ccctgtggtg actgcggcac 240
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gccattcttt cgtagggttt tgttcatttt actatttgtc atttttctag gaaacatctg 360
tttttgtaaa acaaacaagg gggaatcaag tattttaacc acaaagtata aatactggct 420
ctaagctttc atcacttcat tgacaaactg aatgctgagg aggctgaagg cgaggaggct 480
tttgcggatg tggaccttga gctgcgtgtt tgggagacgc acaggcctcg gggagactca 540
agccagatgc cagccacggg gct 563

<210> 34
<211> 466
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 153210R6

<220>
<221> unsure
<222> 14, 156, 277
<223> a, t, c, g, or other

<400> 34
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tctctctgct gtgccgactg cttaatggga atatatttat tcgtgatcgg aggctttgac 120
ctaaagtttc gtggagaata caataagcat gcgcantgtg gatggagagt actcattgtc 180
agcttgtagg atctttggcc attctgtcca cagaagtatc agttttactg ttaacatttc 240
tgacattgga aaaatacatc tgcattgtct atccttntag atgtgtgaga cctggaaaat 300
gcagaacaat tacagttctg attctcattt ggattactgg ttttatagtg gtttcattcc 360
attgagcaat aaggaatttt tcaaaaacta ctatggcacc aatggagtat gcttccctct 420
tcattcagaa gatacagaaa gtattggagc ccagatttat tcagtg 466

<210> 35
<211> 230
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2488822H1

<220>
<221> unsure
<222> 43
<223> a, t, c, g, or other

<400> 35
ctttgaccta aagtttcgtg gagaatacaa taagcatgcg cantgtggat ggagagtact 60
cattgtcagc ttgtaggatc tttggccatt ctgtccacag aagtatcagt tttactgtta 120
acatttctga cattggaaaa atacatctgc attgtctatc cttttagatg tgtgagacct 180
ggaaaatgca gaacaattac agttctgatt ctcatttgga ttactggttt 230

<210> 36
<211> 483
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3558664T6

<220>

<221> unsure
<222> 152-193, 334, 447
<223> a, t, c, g, or other

<400> 36
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tgtatagtct tttgtcatta aacaccatct acagattgaa aggttctgca ctgtctactt 120
ccaggactat attgcaatgc tatgcacata gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnngttactg aagtagattt ctcttaattt cttatgcaaa atgtctacta 240
atatatatac attattgata taattacttc cctttgtaag agcattagtc atttttattt 300
ttcctcatgt ccttgtaaaa tatttatctt agcnattatt ataaattaat tttgtggtat 360
tcatttcata ccagtaaatc cctcatgaag caccccaca gtattctctg cgaagaaatg 420
aatttcagag tcagtcatga ataggganttg agtctcgttg attgaggaat cagtgacatt 480
tca 483

<210> 37
<211> 612
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2488822X308B1

<220>
<221> unsure
<222> 561
<223> a, t, c, g, or other

<400> 37
ggggtatgtg aaaaggtccg gctccattaa ctcaggtggc atctcctgca gtggccacat 60
ttccacccag atgaatgatg gagcatatgt tttctgacct ttgctgtcca tagattttct 120
ttgtctgtag ttataccaaa accgatgaat catttcttta aatggtcttg tggtcagagt 180
atagagaatt gggttcaaag cactgttaat gggcagaata aaaatcacta cccaagaggt 240
tatggtacct ggtatttcta cctgaagcag tgaaagaaat ttcactacaa aaatgggtat 300
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gcttccatag gaaaaaactg tgatgataaa tgcggccaaa ttaataccaa gaaaaattgc 480
cactgaataa atctggggct ccaatacttt ctgtatcttc tgaatgaaga gggaagcata 540
ctccattggt gccatagtag ntttgaaaaa ttccttattg ctcaatggaa tgaaagccac 600
ttttaaacca gt 612

<210> 38
<211> 562
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2488822X310D1

<220>
<221> unsure
<222> 311, 359, 446, 454, 509, 556
<223> a, t, c, g, or other

<400> 38
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aaaccatgta taatacatgt tcctttgatt gattattaat ttgatatttt tagcagccta 120
gaagggattg aaatttcaaa tatccaacaa aggatgttta gacctcttat gaatctctct 180
cacatatatt ttaagaaatt ccagtactgt gggtatgcac cacatgttcg cagctgtaaa 240
ccaaacactg atggaatttc atctctagag aatctcttgg caagcattat tcagagagta 300
tttgtctggg ntgtatctgc agttacctgc tttggaaaca tttttgtcat ttgcatgcna 360
ccttatatca ggtctgagaa caagctgtat gccatgtcaa tcatttctct ctgctgtgcc 420
gactgcttaa tggggatata tttatncgtg atcngaggct ttgacctaaa gtttcgtgga 480
gaatacaata agcatgcgcc tgtgggatng agagtactca ttgtcagctt gtaggatctt 540

tggccattcc tgtccncagg ag 562

<210> 39
<211> 260
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2705201H1

<400> 39
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ctgctgagcc aggcatggcg cgtgcggagg ctggtgcggc atggcacggg ccccgcgggc 120
tggcagctgg tgggcctggc gctgtgcctg atgctggtgc aagtcatcat cgctgtggag 180
tggctggtgc tcaccgtgct gcgtgacaca aggccagcct gcgcctacga gcccatggac 240
tttgtgatgg ccctcatcta 260

<210> 40
<211> 264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3141184H1

<400> 40
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caactacttc gacacgtcgc agcccaggat gcgggagacg gccttcgagg aggacgtgca 120
gctgccgcgg gcctatatgg agaacaaggc cttctccatg gatgaacaca atgcagctct 180
ccgaacagca ggatttccca acggcagctt gggaaaaaga cccagtggca gcttggggaa 240
aagacccagc gctccgttta gaag 264

<210> 41
<211> 505
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 384797R6

<220>
<221> unsure
<222> 433, 497
<223> a, t, c, g, or other

<400> 41
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agctctccga acagcaggat ttcccaacgg cagcttggga aaaagaccca gtggcagctt 120
ggggaaaaga cccagcgctc cgtttagaag caacgtgtat cagccaactg agatggccgt 180
cgtgctcaac ggtgggacca tcccaactgc tccgccaagt cacacaggaa gacacctttg 240
gtgaaagact ttaagttcca gagaatcaga atttctctta ccgatttgcc tccctggctg 300
tgtctttctt gagggagaaa tcggtaacag ttgccgaacc aggccgcctc acagccagga 360
aatttggaaa tcctagccaa ggggatttcg tgtaaatgtg aacactgacg aactgaaaag 420
ctaacaccga ctnccgcccc tcccctgcca cacacacaga cacgtaatac agaccaacct 480
caatcccgca attcganggg gggcc 505

<210> 42
<211> 606
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<223> Incyte ID No: 2705201X325F1

<220>
<221> unsure
<222> 41, 112, 126, 135, 232, 235, 319, 327, 329, 333, 342, 350, 352, 356, 359-360, 375-376, 379, 384, 388, 391-392, 394, 403, 405-406, 418, 426, 437, 453, 462-463, 475, 479-480, 485-486, 495, 500, 502, 510, 529, 541, 545-546, 549, 557, 559, 562, 565, 568, 571-572, 577, 583, 589-590, 596
<223> a, t, c, g, or other

<400> 42
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gcctgatgct ggtgcaagtc atcatcctgt ggagtggctg gtgctcaccg tnctgcgtga 120
cacaangcca gcctncgcct acgagcccat ggactttgtg atggccctca tctacgacat 180
ggtactgctt gtggtcaccc tggggctggc cctcttcact ctgtgcggca anttnaagag 240
gtggaagctt aacggggctt cctcctcatc acagccttcc tctctgtgct catctgggtg 300
gcctggatga ccatgtacnt tttcggnant ttnaacctgc anagggggan cntttnaann 360
accccacttg gctannaant ttgncggnaa nngntgggtt ttnannatct tccatgcntc 420
cttganacca atgcacnttt tgccaaccct tanggagaac annccaaact acttngaann 480
tcccnnccca tgttngggan anggccttcn caggaggaat tttatcttnc gcggggctaa 540
nttgnnaana aggcttncnc antgnttnaa nnaattnagc ttnccgaann cagggnttтc 600
caaacg 606

<210> 43
<211> 655
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1262948X325F1

<220>
<221> unsure
<222> 7, 220, 310, 320, 409, 420, 446, 469, 474, 485, 488, 491, 495, 513, 519, 530, 533, 545, 555, 561, 568, 588, 591, 594, 601, 611, 614, 625, 638, 647
<223> a, t, c, g, or other

<400> 43
gaacagnctt ggagcgtcgg cgctgcgggg ccgcgggggt cgaatgttcg tggcatcaga 60
gagaaagatg agagctcacc aggtgctcac cttcctcctg ctcttcgtga tcacctcggt 120
ggcctctgaa aacgccagca catcccgagg ctgtgggctg gacctcctcc ctcagtacgt 180
gtccctgtgc gacctggacg ccatctgggg cattgtggtn gaggcggtgg ccggggcggg 240
cgccctgatc acactgctcc tgatgctcat cctcctggtg cggctgccct tcaaggagaa 300
ggagaagaan ggccctgtgn gctccacttt ctgttcctcc tggggaacct ggggcctctt 360
tggggctgac gtttccttca tcatccagga agacgagacc aatctgctnc tgttccggcn 420
gcttcctctt ggggggttct cttttnggct cttgctttct tcctgcctnc ttangcaagg 480
caatngcncc nttcngaagc ttggttccgg cantggcang gggccccccn ggnttgtcaa 540
acttnttggg cttgncgcct nttccctnaa agcttggtca aaataatnat nccntttgaa 600
nttgcttggt ntcnaccctt ttttnttaaa aaaaggcnaa ctttgcnctt aaaaa 655

<210> 44
<211> 207
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3036563H1

<400> 44
gtcacctgta tctgtgacca cctaacatca ttctccatcc tcatgtcccc tgactcccca 60
gatcctagtt ctctcctggg aatactcctg gatattattt cttatgttgg ggtgggcttt 120
tccatcttga gcttggcagc ctgtctagtt gtggaagctg tggtgtggaa atcggtgacc 180
aagaatcgga cttcttatat gcgccac 207

<210> 45
<211> 264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4457161H1

<400> 45
atcttgatgg agcagaatca gtactgacag tcaagacctc gaccagggag tggaatggaa 60
cctatcactg catatttaga tataagaatt catacagtat tgcaaccaaa gacgtcattg 120
ttcacccgct gcctctaaag ctgaacatca tggttgatcc tttggaagct actgtttcat 180
gcagtggttc ccatcacatc aagtgctgca tagaggagga tggagactac aaagttactt 240
tccatatggg ttcctcatcc cttc 264

<210> 46
<211> 408
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SZAH00352F1

<400> 46
ctcgagggtg ttcaaaaact gttgatgtgt gttgtcactt taccaatgct gctaataatt 60
cagtctggag cccatctatg aagctgaatc tggttcctgg ggaaaacatc acatgccagg 120
atcccgtaat aggtgtcgga gagccgggga aagtcatcca gaagctatgc cggttctcaa 180
acgttcccag cagccctgag agtcccattg gcgggaccat cacttacaaa tgtgtaggct 240
cccagtggga ggagaagaga aatgactgca tctctgcccc aataaacagt ctgctccaga 300
tggctaaggc tttgatcaag agcccctctc aggatgagat gctccctaca tacctgaagg 360
atctttctat tagcataggc caagcggaac atgaaatcag ctcttctc 408

<210> 47
<211> 413
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SZAH02656F1

<400> 47
ctcgagggtg ttcaaaaact gttgatgtgt gttgtcactt taccaatgct gctaataatt 60
cagtctggag cccatctatg aagctgaatc tggttcctgg ggaaaacatc acatgccagg 120
atcccgtaat aggtgtcgga gagccgggga aagtcatcca gaagctatgc cggttctcaa 180
acgttcccag cagccctgag agtcccattg gcgggaccat cacttacaaa tgtgtaggct 240
cccagtggga ggagaagaga aatgactgca tctctgcccc aataaacagt ctgctccaga 300
tggctaaggc tttgatcaag agcccctctc aggatgagat gctccctaca tacctgaagg 360
atctttctat tagcataggc aaagcggaac atgaaatcag ctcttctcct ggg 413

<210> 48
<211> 489
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SZAH01730F1

<220>
<221> unsure
<222> 341, 393
<223> a, t, c, g, or other

<400> 48
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ccacccagaa acctatcaac agaggtttgt tttcccatac tttgacctct ggggcaatgt 120
ggtcattgac aagagctacc tagaaaactt gcagtcggat tcgtctattg tcaccatggc 180
tttcccaact ctccaagcca tccttgctca ggatatccag gaaaataact ttgcagagag 240
cttagtgatg acaaccactg tcagccacaa tacgactatg ccattcagga tttcaatgac 300
ttttaagaac aatagccctt caggcggcga aacgaagtgt ngtcttctgg aacttcaggc 360
ttgccaacaa cacaggggggg tgggacagca gtnggtgcta tgttgaagaa ggtgatgggg 420
acaatgtcac ctgtatctgt gaccacctaa catcattctc catcctcatg tcccctgact 480
tcccagatc 489

<210> 49
<211> 87
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SZAH03622F1

<400> 49
ccaagacaga aggcaatggc tttctgagtg gacctgcttg tttcatgcag aatgaaaacc 60
aaggggtaga acagcattag ggccaat 87

<210> 50
<211> 116
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SZAH01163F1

<400> 50
cttctgttcc cgtgtggtca cgtaggttgg attgtcctgt tcttagttgt gcaacgaaga 60
atgctcttgg atgagttttc cagggatgat ctggtttctt ctgtgttgga atcgtg 116

<210> 51
<211> 558
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SZAH02669F1

<400> 51
cactgtcccc gggaggtcac gtaggttgga ttatcctgtt cttagttgag caacgaagaa 60
gcactggatg agttttccag ggatgagctg gttgcttctg gggtggaaac attatacgtt 120
cctgttttac caaacaaatt gttaaatctc cttgatattg gagaactcat agaaaacaca 180
ggtgtggatg aacccaggga tgtcgacttt gagtgctgtg aagaccatct cgacaatgaa 240
aacttattca gcaaagcttc ctgtaccttc agatcccaga ggcatccaaa gagtaaaatg 300
aataatccct ggaagacatt gaggatggca aatatgatat ggaacacaag gttggtccct 360
gggaacacag tggtgagacc aaaaccccaa gtgaggccca agagtggtgt gaggacccca 420
atgctcttgc tgatctgaaa caggctgctc ttctcctgct tgcatggctt gtctccaatg 480
gaaggcctca ggatcttggt gatgacacaa tagtgatggt tatgttcacc acacaatgat 540
cagtgctggg atggcaaa 558

<210> 52
<211> 362
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: SZAH00249F1

<400> 52
ctcatccctg gaaaactcat ccagtgcttc ttcgttgctc aactaagaac aggataatcc 60
aacctacgtg acctcccggg gacagtggct gtgcttttaa aaagagatgc ttgcaaacaa 120
tggggaacgt gttctcgggg caggtttccg ggagcagatg ccaaaaagac tttttcatag 180
agaaggggct ttcttttgta aagacagaat aaaaataatt gttatgtttc tgtttgttcc 240
ctccccctcc cccttgtgtg ataccacatg tgtatagtat ttaagtgaaa ctcaagccct 300
caaggcccaa cttctctgtc tatatgtaat atagatttcc gagaggcatt ttcacctttt 360
ac 362

<210> 53
<211> 615
<212> DNA
<213> Canis familiaris

<220>
<221> misc_feature
<223> Incyte ID No: 702778992H2

<400> 53
cggggccttc gtgctgctca ccacggccac ctccattgcc atatgggtgg tgtggattgt 60
catgtacacg tacggcaaca ggcagcgcaa cagccccacc tgggatgacc ccacgctggc 120
catcgccctc gccgccaatg cctgggcctt tgtgctcttc tatgtcatcc ctgaggtctc 180
ccaggtgacc aaggccagcc cagagcaaag ttaccagggg gacatgtacc ccacccgggg 240
cgtaggctac gagaccatcc tgaaagagca gaagggccag agtatgtttg tggagaacaa 300
ggcattttcc atggatgagc cagcctcagc taagagaccg gtgtcaccat acagtgggta 360
caacgggcag ctgctgacca gcgtgctcca gcccaccgag atggccctga tgcacaaagg 420
cccgtccgaa ggagcttacg acgtcatcct cccacgagcc accgccaaca gccaggtgat 480
gggcagtgcc aactccaccc tgagggccga agacatggtt gcggcccaga gccaccaggc 540
agccacgcca ccgagagacg gcaagagctc ccaggtcttt agaaacccct acgtgtggga 600
ctgagtcggc ggcag 615

<210> 54
<211> 686
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701938522F6

<400> 54
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aagcagcacc atagccccac ctgggatgac cccacactgg ccattgcgct cgctgccaat 120
gcctggactt ttgtcttctt ctatgtcatc cctgaggtct cccaagtgac caaacccagc 180
ccagaacaga gctaccaggg ggacatgtac ccgacccgag gggtgggcta cgagaccatc 240
ctgaaggagc agacgggcca gagcatgttg tggagaacaa ggcattttct atggatgaac 300
cagcctcagc aaagagaccg gtgtcgcctt acagtggcta caatggtcag ctgctgacca 360
gcgtgtacca gcccaccgag atggccctga tgcacaaagg cccgtctgaa ggtgcgtacg 420
acgtcatcct cccacgggcc accgcaacag ccaggtgatg ggcagtgcca actcaaccct 480
gcgagctgaa gacatgtaca tggtccagag ccaccaggtg gcacgccaac gaaagacggc 540
aagatctctc aggatcagtc cccgaaaaat aaaacaagat ggtagatgcc ctcttccctg 600
gaccgtgacc tctccgtgtg ccattgccaa catggacttt gtcatggcct catttacgta 660
atgctgctgc tgctggcggc ttccta 686

<210> 55
<211> 198
<212> DNA
<213> Macaca fascicularis

<220>
<221> misc_feature
<223> Incyte ID No: 700712581H1

<400> 55
tggcttgccg cgcggcagcg gctgccaggc tgcccgccga agacccccct cccgactgcg 60
gggcttgggc tcctggacaa ggtggcaggt gctggaggct gccgcagtct gcgtgggtgg 120

aggggagctc agcttggttg tgggagccgg cgaccgtcac tggctggatg gacctggaag 180
cctcgctgct gcccactg 198

<210> 56
<211> 271
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 701250242H1

<400> 56
aagaaatcca agctgcactg gtgcagcaac gtccctgaca tcttcatcat caacctctct 60
gtggtggatc tgcttttcct gctgggcatg cctttcatga tccaccagct catgggtaat 120
ggtgtctggc actttgggga aaccatgtgc accctcatca cagccatgga cgccaacagt 180
cagttcacca gcacctacat cctgactgct atggccattg accgctactt ggccaccgtc 240
catcccatct cctccaccaa gttccggaag c 271

<210> 57
<211> 304
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701899983H1

<400> 57
ccaccccatc tcctccacca agttccggaa gccctccatg gccaccctgg tgatctgcct 60
cctgtgggcg ctctccttca tcagtatcac ccctgtgtgg ctctacgcca ggctcattcc 120
cttcccaggg ggtgctgtgg gctgtggcat ccgcctgcca aacccggaca ctgacctcta 180
ctggttcact ctgtaccagt ttttcctggc ctttgccctt ccgtttgtgg tcattaccgc 240
cgcatacgtg aaaatactac agcgcatgac gtcttcggtg gctccagcct cccaacgcag 300
catc 304

<210> 58
<211> 248
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701028051H1

<400> 58
ggcgacctgc accggctgca tggatctgcg aacctcgttg ctgtccactg gccccaatgc 60
cagcagcatc tccgatggcc aggataatct cacattgccg gggtcacctc ctcgcacagg 120
gagtgtctcc tacatcacat cattatgcct tccgtgtctg gtaccatctg tctcctgggc 180
atcgtgggaa actccacggt catctttgct gtcgtgaaga agtccaagct acactggtgc 240
agcaacgt 248

<210> 59
<211> 497
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 075474_Mm.1

<400> 59
gtgacactgc tcatcctgtt caacgtggct tccctggtga ccatgtactc cactgcactg 60
ctgagccttg actactacat cgagcgtgcc ctgccaccac ctacatggcc agtgtgtaca 120
acacccggca cgtgtgtggc ttcgtctggg gaggggcggt gctcaccagc ttctcctccc 180
tgctcttcta catctgcagt cacgtgtctt ctagaatcgc tgagtgtgcc cggatgcaga 240

acacggaggc agccgatgct atccttgtgc tcatcggcta cgtggtgcca ggtctggctg 300
tgttgtatgc cctggcactc atctcgagaa tcgggaagga agacacaccc ctggaccagg 360
acaccagcag gctggacccc tcggtgcaca ggctgctggt ggccaccgtg tgcactcagt 420
ttggcctctg gacaccttac tacttgagcc tggggacaca gtgctgacgt cacgggggag 480
gaccgtggag gggcatt 497

<210> 60
<211> 266
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700819903H1

<400> 60
gtgtgtacaa cacccggcac gtgtgtggct tcgtctgggg aggggcagtg ctcaccagct 60
tttcctccct gctcttctat atctgcagtc atgtgtcttc tagaattgcc gagtgtgccc 120
ggatgcagaa cacggaggca gccgacgcca tccttgtgct cattggctac gtggtgccag 180
gtctggctgt gttgtatgcc ctggcactca tctcaaggat tgggaaggaa gacacacccc 240
tggaccagga caccagcagg ctggac 266

<210> 61
<211> 294
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701657796H1

<400> 61
ggaagacaca cccctggacc aggacaccag caggctggac ccctcagtgc acaggctgct 60
ggtggccact gtgtgcacac agtttggcct ctggacacct tactacctga gcctggggca 120
cacagtgcta gtgtcacggg gaaggaccgt agtggggcat tatctgggca tcctacaggt 180
tgctaaggac ctggcgaagt tcttggcctt ctcaagcagt tctgtgacgc cgctgctcta 240
ccgttacatc aacaaagcct tccccagcaa gctccggcgc ctggtgaaga agat 294

<210> 62
<211> 432
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 702466096T1

<400> 62
aatgggaatc cagcacaatt gctatcggtt gaacacaata aagaaaaagc gtttggcgag 60
gatcatctcc ttcttcacct gcttctgtat ttcggtggct gttatggtgc tttgatgaac 120
actgtaaaac atgcttccat aggagaacac aatgatgata aacgccacca ggtttaatac 180
ctgtttagac catgaagaat attagtagtg tatgctagca ttctcttaag acaaacatgg 240
cttagatgtc actattaaag atcacagagc ccataaagtg gtattcattt attcgtttat 300
ttactctgtg acaaggtctt attgtagagt tcagatgagc cttcaacttg actaggtagc 360
ctaggctgga caccaacatg cagtcctcct gcctcagatt acaaatgtgt accagatctt 420
cctgatctcc at 432

<210> 63
<211> 727
<212> DNA
<213> Macaca fascicularis

<220>
<221> misc_feature
<223> Incyte ID No: 703021534H1

<400> 63
gagggccagc cccagggtga ccaccagcag taccatgtcg tagatgaggg ccatcacaaa 60
gtccatgggc tcataggcgc aggccggcct cgtgtcgcgc agcacggtga gcaccagcca 120
ctccacagcg atgatgactt gtaccagcat caggcacagc gccaggccca ccagctgcca 180
gcccgcgggg cccgtgccgt gccgcaccag cctccgcacg cgccacgcct ggctcagcag 240
gcaggagaag cagagcgcaa agaggacgcc ccagaggaag cggcggacgg agcagatggt 300
ctcgtcctcc tggatgatga aggcgaatgt cagcccgaag aggcccaggg tccccaggag 360
gaagagaaag tggaggccca cggggctctt cttctccttc tccttgatga agggcagccg 420
caccaggagg atgagcatca ggagcagtgt gatcagggcg cccgccccgg ccaacggctt 480
caacaagaag tgccccagat ggcgtccagg tcgcacaggg acacgttact gagggacggc 540
aggtccagcc cgcaccctcg ggacgtgctg gcgttttcag aggccaccga ggtgatcaca 600
aagagcagga ggaaggtgag cacctggtga gctctcatct ttctctctga tgccacgaac 660
attcgacccc tgcggcccgc agcgccaacg ctccagctgg gcctcggccc gagtcacatc 720
tctgcag 727

<210> 64
<211> 461
<212> DNA
<213> Canis familiaris

<220>
<221> misc_feature
<223> Incyte ID No: 703543565J1

<400> 64
cagagggaca ggagggcagt cggtgttagc ttttcggttc agcagtgttc acatttacac 60
gaaatcccct tgtgtaggat ttctagatct cccggctgtg aggcagcctt gttcggctac 120
tgttactgat ttctccctca agaaagacac agccagggaa taaaatcggt aacgagagat 180
tcttacttct ctggaactta acacagtctt tcaccagagg tgtcttccag tgctaactag 240
gcggagcagt tgggatagtc cctccatcga gcacaacggc catctcagct gggctgacta 300
gacacttgct ctctaaacgg agcgctcggt ctgtttccca agctgccatt gcgacaatcc 360
cgccgttcgg agagctgcat agtgttcatc catcgagaag gcttcgcttc tccatgtagg 420
tccgtggcag ctgcacgtcc tcctcacaac gcatgtctcc c 461

<210> 65
<211> 278
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 076599_Mm.1

<220>
<221> unsure
<222> 249
<223> a, t, c, g, or other

<400> 65
cgcgggcgcg ctgcagagat gtgacttggg cccagggcca gcaggagcgt cggcgctgcg 60
gggacgcgag ggtcgaatgt tcctggtgtt agagagaaag atgagaaccc atcaagtgtt 120
tcccttgccc ctgctcctgg tgattgcctc cgtggcttca gagaacgcca gcacgtcccg 180
gggctgtgga ctggaccttc ttcctcagta cgtgtccctg tgcgacctgg acgccatctg 240
gggcatccnt ggtggagggc agtggccggg gcgggggc 278

<210> 66
<211> 561
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701749639H1

<400> 66
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acgtttgctt tcatcatccg gatggacgag acaatctgct ccatccgacg cttcctctgg 120
ggtgtcctct tcgcactctg cttttcctgc ctgctgagcc aggcgtggcg ggtacggagg 180
ctggtgcgcc agggcacgag cccggccagc tggcagctgg tgagcctggc actgtgcctg 240
atgctggtgc aggtcatcat cgccactgag tggctggtgc tgactgtgct acgtgacacg 300
aagccggcct gcgcctacga gcccatggat tttgtgatgg cgctcatcta cgacatggtg 360
ctgctggcta tcaccctagc gcagtccctc ttcacactgt gtggcaagtt caagcggtgg 420
aaggtgaacg gagccttcat cctcatcact accttcctct ctgtgctcat ctgggtgatc 480
tggatgacca tgtacctctt cggcaactcg ttaattaagc gggcagatgc ctggagcgaa 540
cctaccttgg ccatcacgct g 561

<210> 67
<211> 499
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 702147192H1

<400> 67
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acgtcccggg gctgtgggct ggaccttctt cctcagtacg tgtccctgtg cgacctggac 180
gccatttggg gaatcgtggt ggaggcagtg gccggggcag gggccctgat cacactgctt 240
ctgatgctta ttctcctggt gagactgccc ttcatcaagg acaaggaaag gaggcggcct 300
gtgtgcctcc acttcctctt cctgctgggg accctgggcc tctttggcct gacgtttgct 360
ttcatcatcc ggatggacga gacaatctgc tccatccgac gcttcctctg gggtgtcctc 420
ttcgcactct gcttttcctg cctgctgagc caggcgtggc gggtacggag gctggtgcgc 480
cagggcacga gcccggcca 499

<210> 68
<211> 565
<212> DNA
<213> Canis familiaris

<220>
<221> misc_feature
<223> Incyte ID No: 703557532J1

<220>
<221> unsure
<222> 24
<223> a, t, c, g, or other

<400> 68
gctgttcaga tcagcaagag catnggggtc ctaacaccac tctggggctc acctggggtt 60
tggtcttgcc actgtgttcc aaggaagcaa gctgtgttcc atattatatt tacactcctc 120
aatgcctttc agggattatt catttgctct tggatgcctc tgggatcaga aggtacagga 180
agccttacta aagaagtttt cactgtcaag atggtcttct cagcactcaa agtcaacatc 240
cctaggttca tctacaccag tattttctat gagttctcca atatcaagaa gatttaacaa 300
tttattggaa aaacaggaac gtacaagttt ccaccccaga aacaaccagc tcatccctgg 360
aaaacacatc cagtgcttac tccttgctga actaagaaca ggaaaatcta cccacgtgac 420
ttcttaaagg acagcggata tgctctgaaa aaaaaaaaaa atcctttcaa agccatgggg 480
taaaacggtt tcctccgagg cttcccggga gcaaatgctg aagagacctt tcggctttag 540
gggaaaagaa gcttcctttg gtaaa 565

<210> 69
<211> 468
<212> DNA
<213> Canis familiaris

<220>
<221> misc_feature
<223> Incyte ID No: 702766139H1

<400> 69

cccgccagta ggactccaga gatgtttggt acttttgaga aatggcagag tttctggatg 60
acttttccag gctccccaac acctattacg ggatctcggc acatgatgtt ctttccagga 120
accacattaa gcttcataga tgggctccgg actgaattat tagcagcatt aggtaaagtg 180
acaaaatatg tccagctttt ttagacacca ggaaactgat gtccttgcca tgaacttgta 240
tttgcagcac acttgcttgc cattaacttc tttttctgca ggaaaggata aggaatccac 300
ttggaaagtc actctgtagt atctcagtcc tcgtcaatgc agcatctgaa gtgataggga 360
acccttgcag ggaactgtag cactccagag gatcaaccat gatgtttggc tctagaggca 420
gtgggtaaac ggtcacatct ttcattacga cacatgtatg aatacttg 468

<210> 70
<211> 263
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 701085654H2

<400> 70
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ttcggtcttg ccacagtgat ccagggaagc aatgctgtgt tccacatcat atttactact 120
ctcaatgcct tccaggggct cttcattttg ctctttggct gcctctggga tcagaaggtg 180
caggaagctt tgctgcataa gttttcattg tcaaggtggt cttctcaaca ctcaaagtca 240
acatccatag gttcgtcaac acc 263

<210> 71
<211> 246
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 701077530H1

<400> 71
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gaacgcgtgt tggctcaact gggaggacac cagagcactg ctggcttttg ccatccccgc 120
gttgattatt gtggtggtaa atgtgagcat cacagttgtg gtcatcacca agatcctgag 180
gccctccatt ggggacaagc caggcaagca agagaagagc agcctattcc acatcagcaa 240
gagtat 246

<210> 72
<211> 515
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 702147631H1

<400> 72
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atcacagtgg gggttacaca gccacaggaa gtttacatga ggaagaatgc atgttggctc 180
aactgggagg acaccagagc actgctggct tttgctatcc cagcgttgat tattgtggtg 240
gtgaacgtga gcatcacagt tgtggtcatc accaagatcc taaggccctc cgtcggagac 300
aagccaggca agcaggaaaa gagcagccta ttccagatca gcaagagcat tggagtcctc 360
acgccactct tggggctcac ttggggtttt ggtctggcca cagtgatcca ggggagcaat 420
gctgtgttcc acatcatatt tactctcctc aatgcctttc aggggctctt cattttgctc 480
tttggctgcc tctgggatca gaaggtacag gaagc 515

<210> 73
<211> 539
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 702239655H1

<400> 73
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tgtggaagcc atggtgtgga aatcagtgac caagaaccga acttcctata tgcgccacat 120
ctgcatcgtc aacattgccc tttgccttct gattgctgac atctggttca ttgtggctgg 180
tgctatccat gatgggcatt acccactcaa cgaaacagcc tgtgtggccg ccacattctt 240
cattcacttc ttctacctca gtgtcttctt ctggatgcta actctgggcc tcatgctctt 300
ctaccggctg attttcattc tacatgacgc gagcaagtcc acgcagaaag ccattgcctt 360
ttctctaggc tatggctgtc cactcattat ctcatccatc acagtggggg ttacacagcc 420
acaggaagtt tacatgagga agaatgcatg ttggctcaac tgggaggaca ccagagcact 480
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<210> 74
<211> 571
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 702438348T1

<400> 74
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ggggccctat ttctgagagc tcctgtgaat ttggcattat ctggtcctag ttgagcaatg 180
agtaagcact agaggaattt tccacggatg agctggttgt ctctggggtg gaaacgttat 240
atgttccatc aggaggatga actgccactg ataacaaggt gtccatcatt gccttggggg 300
acctttgggg ctgctgtttt accaaaaaga ttattaaatc ttcgggatat cggagaactc 360
atcgaaaaca caggtgttga tgaacctaag gatgttgact ttgagtgttg agaagaccac 420
cttgacaatg aaaacttatg cagcaaagct tcctgtacct tctgatccca gaggcagcca 480
aagagcaaaa tgaagagccc ctgaaaggca ttgaggagag taaatatgat gtggaacaca 540
gcattgctcc cctggatcac tgtggccaga c 571